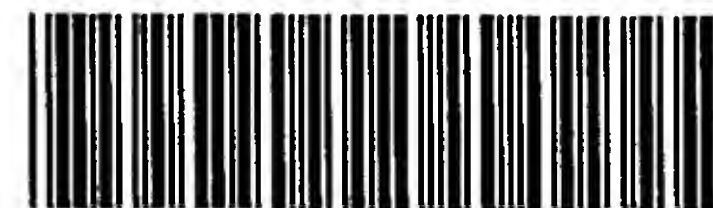


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/583,591
Source: IFWP
Date Processed by STIC: 6/27/06

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IFWP

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DATE: 06/27/2006

PATENT APPLICATION: US/10/583,591

TIME: 10:43:38

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3 <110> APPLICANT: STUBBS, Simon L.
 4 FRANCIS, Michael J.
 5 CUSHING, Adrian
 6 ISMAIL, Rahman A.
 8 <120> TITLE OF INVENTION: CYTOCHROME C PROTEIN AND ASSAY
 10 <130> FILE REFERENCE: PA0394
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/583,591
 13 <141> CURRENT FILING DATE: 2006-06-19
 15 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/005317
 16 <151> PRIOR FILING DATE: 2004-12-17
 18 <150> PRIOR APPLICATION NUMBER: GB 0329353.7
 19 <151> PRIOR FILING DATE: 2003-12-19
 21 <160> NUMBER OF SEQ ID NOS: 15
 23 <170> SOFTWARE: PatentIn version 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 315
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo sapiens
 30 <400> SEQUENCE: 1
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 33 gttgaaaagg gaggcaagca caagactggg ccaaactctcc atggtctctt tgggcggaag 120
 35 acagggtcagg cccctggata ctcttacaca gccgccaata agaacaaagg catcatctgg 180
 37 ggagaggata cactgatgga gtatttggag aatcccaaga agtacatccc tggaacaaaa 240
 39 atgatctttg tcggcattaa gaagaaggaa gaaagggcag acttaatagc ttatctcaaa 300
 41 aaagctacta atgag 315
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 105
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Homo sapiens
 49 <400> SEQUENCE: 2
 51 Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
 52 1 5 10 15
 55 Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
 56 20 25 30
 59 Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
 60 35 40 45
 63 Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
 64 50 55 60
 67 Leu Met Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro Gly Thr Lys
 68 65 70 75 80
 71 Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
 72 85 90 95
 75 Ala Tyr Leu Lys Lys Ala Thr Asn Glu

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DATE: 06/27/2006

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TIME: 10:43:38

Input Set : A:\PA0394 Sequence Listing.ST25.txt

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76          100          105
79 <210> SEQ ID NO: 3
80 <211> LENGTH: 1044
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthetic oligonucleotide
87 <400> SEQUENCE: 3
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90 gatgttaatg ggcacaaatt ttctgtcagt ggagagggtg aaggatgatgc aacatacggg      120
92 aaacttaccc ttaaatttat ttgcactact ggaaaactac ctgttccatg gccaacactt      180
94 gtcactactc tctcttatgg tgttcaatgc ttttcaagat acccagatca tatgaaacgg      240
96 catgactttt tcaagagtgc catgcccga ggttatgtac aggaaagaac tatatttttc      300
98 aaagatgacg ggaactacaa gacacgtgct gaagtcaagt ttgaagggtga tacccttggt      360
100 aatagaatcg agttaaaagg tattgatttt aaagaagatg gaaacattct tggacacaaa      420
102 ttggaataca actataactc acacaatgta tacatcatgg cagacaaaca aaagaatgga      480
104 atcaaagtta acttcaaaat tagacacaac attgaagatg gaggcgttca actagcagac      540
106 cattatcaac aaaatactcc aattggcgat ggccctgtcc ttttaccaga caaccattac      600
108 ctgtccacac aatctgccct ttcgaaagat cccaacgaaa agagagacca catgggcctt      660
110 cttggctttg taacagctgc tgggattaca catggcatgg atgaactata caaactcgag      720
112 aattcgacca tgggtgatgt tgagaaaggc aagaagattt ttattatgaa gtgttcccag      780
114 tgccacaccg ttgaaaaggg aggcaagcac aagactgggc caaatctcca tgggtctctt      840
116 gggcggaaga caggtcaggc ccctggatac tcttacacag ccgccaataa gaacaaaggc      900
118 atcatctggg gagaggatag actgatggag tatttggaga atcccgccaa gtacatccct      960
120 ggaacaaaaa tgatctttgt cggcattaag aagaaggaag aaagggcaga cttaatatgct     1020
122 tatctcaaaa aagctactaa tgag                                     1044
125 <210> SEQ ID NO: 4
126 <211> LENGTH: 348
127 <212> TYPE: PRT
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Synthetic polypeptide
133 <400> SEQUENCE: 4
135 Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
136 1          5          10          15
139 Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
140          20          25          30
143 Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
144          35          40          45
147 Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
148          50          55          60
151 Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
152 65          70          75          80
155 His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
156          85          90          95
159 Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
160          100         105         110
163 Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
164          115         120         125

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TIME: 10:43:38

Input Set : A:\PA0394 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06272006\J583591.raw

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167 Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
168      130                      135                      140
171 Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
172 145                      150                      155                      160
175 Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val
176                      165                      170                      175
179 Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
180                      180                      185                      190
183 Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
184                      195                      200                      205
187 Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val
188      210                      215                      220
191 Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys Leu Glu
192 225                      230                      235                      240
195 Asn Ser Thr Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met
196                      245                      250                      255
199 Lys Cys Ser Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr
200                      260                      265                      270
203 Gly Pro Asn Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro
204                      275                      280                      285
207 Gly Tyr Ser Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly
208      290                      295                      300
211 Glu Asp Thr Leu Met Glu Tyr Leu Glu Asn Pro Ala Lys Tyr Ile Pro
212 305                      310                      315                      320
215 Gly Thr Lys Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala
216                      325                      330                      335
219 Asp Leu Ile Ala Tyr Leu Lys Lys Ala Thr Asn Glu
220                      340                      345

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223 <210> SEQ ID NO: 5

224 <211> LENGTH: 1041

225 <212> TYPE: DNA

226 <213> ORGANISM: Artificial Sequence

228 <220> FEATURE:

229 <223> OTHER INFORMATION: Synthetic oligonucleotide

231 <400> SEQUENCE: 5

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232 atgggtgatg ttgagaaagg caagaagatt tttattatga agtgttccca gtgccacacc      60
234 gttgaaaagg gaggcaagca caagactggg ccaaactctc atggtctctt tgggcggaag      120
236 acaggctcagg cccctggata ctcttacaca gccgccaata agaacaaagg catcatctgg      180
238 ggagaggata cactgatgga gtatttggag aatcccggca agtacatccc tggaacaaaa      240
240 atgatctttg tcggcattaa gaagaaggaa gaaagggcag acttaatagc ttatctcaaa      300
242 aaagctacta atgagggtcg acccgggatg agtaaaggag aagaactttt cactggagtt      360
244 gtcccaattc ttgttgaatt agatggtgat gttaatgggc acaaattttc tgtcagtgga      420
246 gaggggtgaag gtgatgcaac atacggaaaa cttaccctta aatttatttg cactactgga      480
248 aaactacctg ttccatggcc aacacttgct actactctct cttatggtgt tcaatgcttt      540
250 tcaagatacc cagatcatat gaaacggcat gactttttca agagtgccat gcccgagggt      600
252 tatgtacagg aaagaactat atttttcaaa gatgacggga actacaagac acgtgctgaa      660
254 gtcaagtttg aagggtgata ccttggttaat agaatcgagt taaaagggtat tgattttaaa      720
256 gaagatggaa acattcttgg acacaaattg gaatacaact ataactcaca caatgtatac      780
258 atcatggcag acaaacaaaa gaatggaatc aaagttaact tcaaaattag acacaacatt      840

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TIME: 10:43:38

Input Set : A:\PA0394 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06272006\J583591.raw

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260 gaagatggag gcgttcaact agcagaccat tatcaacaaa atactccaat tggcgaatggc 900
262 cctgtccttt taccagacaa ccattacctg tccacacaat ctgccctttc gaaagatccc 960
264 aacgaaaaga gagaccacat ggctccttctt ggctttgtaa cagctgctgg gattacacat 1020
266 ggcgatggatg aactatacaa a 1041
269 <210> SEQ ID NO: 6
270 <211> LENGTH: 347
271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Synthetic polypeptide
277 <400> SEQUENCE: 6
279 Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
280 1 5 10 15
283 Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
284 20 25 30
287 Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
288 35 40 45
291 Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
292 50 55 60
295 Leu Met Glu Tyr Leu Glu Asn Pro Ala Lys Tyr Ile Pro Gly Thr Lys
296 65 70 75 80
299 Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
300 85 90 95
303 Ala Tyr Leu Lys Lys Ala Thr Asn Glu Gly Arg Pro Gly Met Ser Lys
304 100 105 110
307 Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp
308 115 120 125
311 Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly
312 130 135 140
315 Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly
316 145 150 155 160
319 Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Ser Tyr Gly
320 165 170 175
323 Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg His Asp Phe
324 180 185 190
327 Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe
328 195 200 205
331 Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu
332 210 215 220
335 Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys
336 225 230 235 240
339 Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser
340 245 250 255
343 His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val
344 260 265 270
347 Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val Gln Leu Ala
348 275 280 285
351 Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu
352 290 295 300

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Input Set : A:\PA0394 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06272006\J583591.raw

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355 Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro
356 305                      310                      315                      320
359 Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val Thr Ala Ala
360                      325                      330                      335
363 Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
364                      340                      345
367 <210> SEQ ID NO: 7
368 <211> LENGTH: 1044
369 <212> TYPE: DNA
370 <213> ORGANISM: Artificial Sequence
372 <220> FEATURE:
373 <223> OTHER INFORMATION: synthetic oligonucleotide
375 <400> SEQUENCE: 7
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378 gatgttaatg ggcacaaatt ttctgtcagt ggagagggtg aaggtgatgc aacatacggg      120
380 aaacttaccc ttaaatttat ttgcactact ggaaaactac ctgttccatg gccaacactt      180
382 gtcactactc tctcttatgg tgttcaatgc ttttcaagat acccagatca tatgaaacgg      240
384 catgactttt tcaagagtgc catgcccgaag gggtatgtac aggaaagaac tatatttttc      300
386 aagatgacg ggaactacaa gacacgtgct gaagtcaagt ttgaagggtg tacccttggt      360
388 aatagaatcg agttaaaagg tattgatttt aaagaagatg gaaacattct tggacacaaa      420
390 ttggaataca actataactc acacaatgta tacatcatgg cagacaaaca aaagaatgga      480
392 atcaaagtta acttcaaaat tagacacaac attgaagatg gaggcgttca actagcagac      540
394 cattatcaac aaaataactc aattggcgat ggccctgtcc ttttaccaga caaccattac      600
396 ctgtccacac aatctgccct ttcgaaagat cccaacgaaa agagagacca catggtcctt      660
398 cttggctttg taacagctgc tgggattaca catggcatgg atgaactata caaactcgag      720
400 aattcgacca tgggtgatgt tgagaaaggc aagaagattt ttattatgaa gtgttcccag      780
402 tgccacaccg ttgaaaaggg aggcaagcac aagactgggc caaatctcca tggctctctt      840
404 gggcggaaga caggtcaggc ccctggatac tcttacacag ccgccaataa gaacaaaggc      900
406 atcatctggg gagaggatac actgatggag tatttggaga atccaagaa gtacatccct      960
408 ggaacaaaaa tgatctttgt cggcattaag aagaaggaag aaagggcaga cttaatagct     1020
410 tatctcaaaa aagctactaa tgag                                     1044
413 <210> SEQ ID NO: 8
414 <211> LENGTH: 348
415 <212> TYPE: PRT
416 <213> ORGANISM: Artificial Sequence
418 <220> FEATURE:
419 <223> OTHER INFORMATION: Synthetic polypeptide
421 <400> SEQUENCE: 8
423 Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
424 1                      5                      10                      15
427 Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
428                      20                      25                      30
431 Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
432                      35                      40                      45
435 Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
436                      50                      55                      60
439 Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
440 65                      70                      75                      80
443 His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg

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VERIFICATION SUMMARY

DATE: 06/27/2006

PATENT APPLICATION: US/10/583,591

TIME: 10:43:39

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